

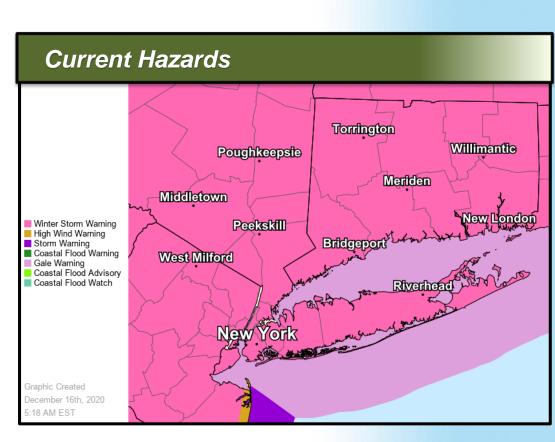


Major Winter Storm Wed PM-Thu AM

Decision Support Briefing #4
As of: 600 AM Dec 16th, 2020

What Has Changed?

- ✓ Winter Storm Warnings now in effect for the entire area Wed PM into Thu AM
- ✓ Coastal Flood Advisories and Watches in effect for Wed PM and Thu AM high tides
- ✓ Gale Warning in effect for all waters Wed PM into early Thu PM















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Hazard



Location



Snow develops Wed PM



Snow/

Sleet

4-10"



Snowfall rates of 1-3"/hr likely.

- Blizzard conditions possible along coast.
- Difficult travel.

Much of Tri-State Region 12 -18" likely N&W of

NYC

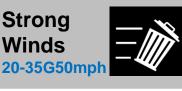
Heavy snow Wed Night Snow tapers off Thu AM

- Snowfall rates of 1-2"/hr possible Sleet will likely mix with the snow, potentially mixing with rain briefly.
- Difficult Travel.

Southern and Eastern Long Island and extreme SF CT

Snow develops Wed PM **Snow/Sleet Wed Night** Snow tapers off Thu AM

Strong Winds



 Scattered to numerous downed tree limbs and power lines along coast.

Blowing and drifting of snow across Interior.

NYC/NJ metro and Coast.

Lighter winds Interior –

15-20g30mph

-Highest threat of

moderate for South

Queens on Thu AM

All Coastal Waters

Shore Bays of LI and

Wed Eve into Thu AM

Wed Eve – Minor to

Coastal **Impacts**



Minor to Moderate coastal flooding likely.

- Inundation of 1 to 3 ft above ground in most vulnerable areas.
- Scattered Dune Erosion/Isolated
- Gales conditions expected, Storm Force gusts possible

overwashes

- Ocean 12-16 ft seas
- LI Sound 4-7 ft seas

-Locally moderate for W LIS Wed PM

- **locally Moderate** Thu AM- Minor to **Moderate**

Wed PM into Thu PM

Marine 30-40G50kt 12-16ft seas



Weather Forecast Office

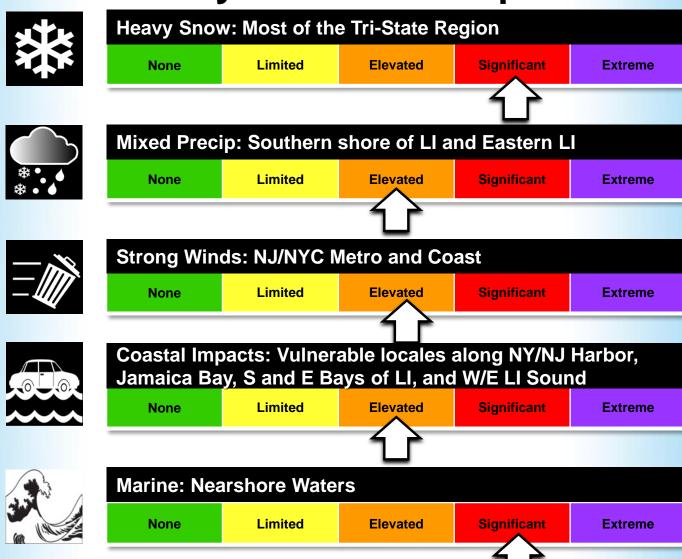








Summary of Greatest Impacts









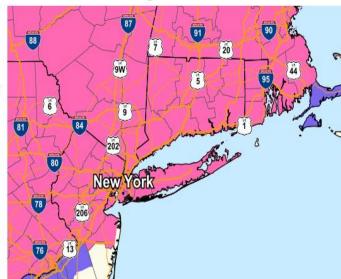




Heavy Snow

Winter Watches Warnings and Advisories

Winter Storm Warning
Winter Weather Advisory



Graphic Created December 16th, 2020 4:18 AM CST

Hazards: Winter Storm Warning in Effect for Entire Region

- ✓ N&W of NYC –12-18" of snowfall likely.
 - ✓ Snowfall rates: 2-3"/hr Wed Eve/Night
 - ✓ Visibility: ¼ mile or less at times
 - ✓ <u>Temperatures</u>: Lower to Mid 20s Interior.
- ✓ Much of Region 8-12" of snowfall likely.
 - ✓ Snowfall rates: 1-2"/hr Wed Eve/Night
 - ✓ <u>Visibility</u>: ¼ mile or less at times
 - ✓ <u>Temperatures</u>: Upper 20s to Lower 30s
- S&E LI and far SE CT- 3-10" of snow and sleet
 - Snowfall rates: 1-2"/hr possible Wed Eve through around 1 am
 - ✓ Temperatures: Lower to Mid 30s

Impacts:

- Difficult travel Wed Eve into Thu AM
- Scattered to numerous downed tree limbs and power lines
 Blizzard conditions possible at times Wed Night for coast

Timing:

- ✓ Snow develops late Wed aft
- ✓ Heavy snow Wed Eve, continues into Wed Night
- ✓ Snow tapers off Thu AM

Forecast Challenges:

- ✓ Uncertainty in how far north sleet mixes in along coast.
 - Likely period of mixing across southern and eastern portions of Long Island and extreme SE CT

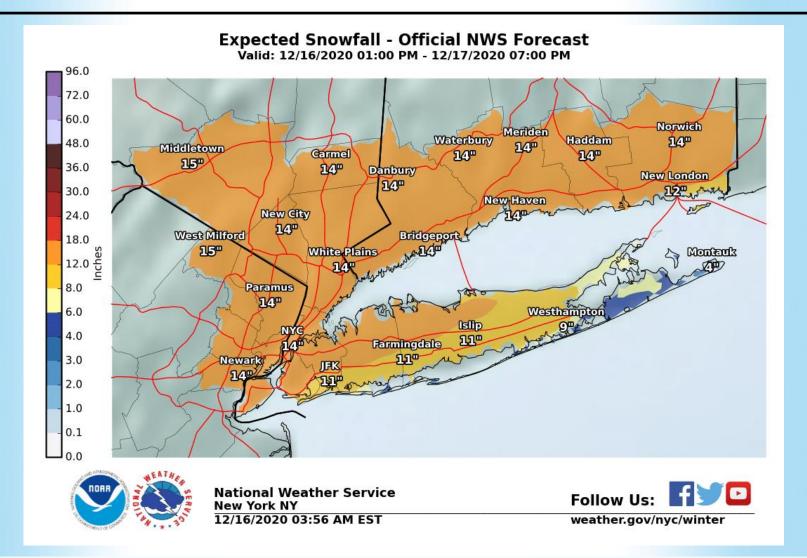








Most Likely Snowfall – Official Forecast





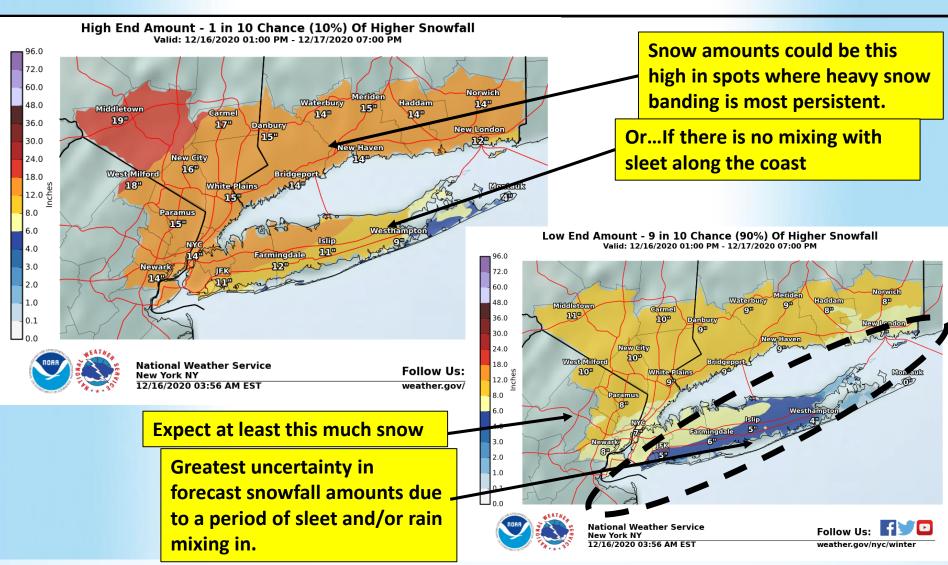








Probabilistic Snowfall Forecast





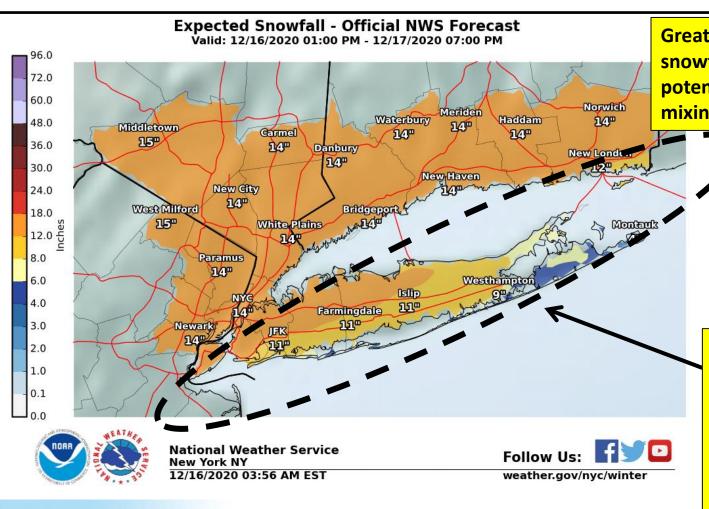








Snow/Sleet Line Uncertainty



Greatest uncertainty in snowfall amounts due to a potential for sleet and or rain mixing in.

This zone of mixed precip could shift 20 miles north or south. If it moves northwest amounts will be lower for the city/coast. If it moves southeast, amounts will be higher for the city/coast.





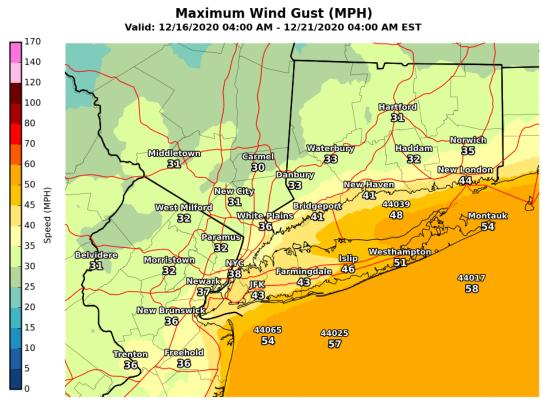








Strong Winds







Follow Us:



Hazards:

- ✓ Eastern Long Island
 - ✓ NE winds 25-35mph with gusts to near 55 mph
- ✓ NYC & Coast
 - ✓ NE winds 25 to 30 mph with gusts to 45 mph
- ✓ Interior
 - √ NE 15-20 gusts to 35mph

Impacts:

- Scattered to numerous downed tree limbs and power lines
- Near blizzard conditions along portions of the coast

Timing:

✓ Wed Eve into early Thu AM









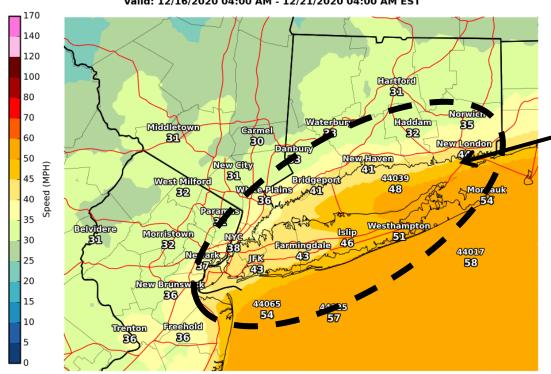




Strong Wind and Heavy Wet Snow Impacts

Maximum Wind Gust (MPH)

Valid: 12/16/2020 04:00 AM - 12/21/2020 04:00 AM EST



Potential for the zone of more widespread downed tree limbs and power lines (NE NJ, NYC, NW Long Island, SW Connecticut, and S Westchester) due to heavy wet snow (6-12") and strong winds.



National Weather Service **New York NY** 12/16/2020 04:15 AM EST

Follow Us:

weather.gov/nyc



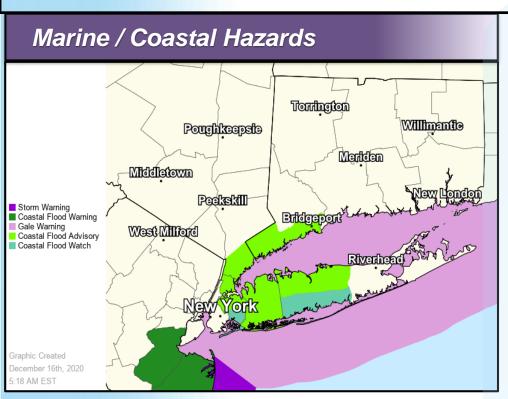








Coastal Flooding



Please go to the NWS New York, NY Coastal Flooding Page for the latest coastal flood forecast and the tools to visualize the coastal impacts.

https://www.weather.gov/okx/coastalflood

Coastal Flood Hazards and Impacts:

- Minor to locally moderate coastal impacts likely Wed PM (1-1½ ft inundation)
 - Localized moderate impacts along W LI Sound due to 3-5 ft wave action
- ✓ Moderate coastal impacts possible Thu AM.
 (2-3 ft inundation)
 - ✓ South shore bays of Queens and LI
 - Several waterfront road closures and potential property damage

Shoreline Hazards and Impacts:

- √ 6-10' breaking waves along the oceanfront, 3 to 6' along LI sound shoreline and Twin Forks.
- Widespread beach erosion and flooding. Scattered areas of dune erosion and isolated washovers along oceanfront Wed PM into Thu AM.
- Minor damage to shoreline structures possible along W LI Sound Wed PM.

Timing:

✓ During times of high tide Wed PM and Thu AM











Event Summary

- ✓ Winter Storm Warning in effect for entire area for Wed Afternoon into Thursday Morning
 - ✓ Heavy Snow (8-12") potential for Much of the Region
 - ✓ A swath of 12-18" of snow likely N&W of NYC
 - √ 1-3"/hr snowfall rates Wed Eve/Night
 - ✓ Blizzard conditions possible along portions of the coastal plain.
 - ✓ Sleet and/or rain will mix in across S&E Long Island and SE CT, limiting amounts (4-10")
- ✓ Strong Winds for the NYC/NJ metro and Coast
 - ✓ 20-35mph with gusts to 40-50mph
 - Scattered to numerous downed tree branches and powerlines.
- ✓ Coastal Flood Advisories and Watches in Effect.
 - Minor to locally moderate coastal flood potential Wed PM
 - Minor to moderate coastal flood potential with Thu AM high tides
- ✓ Gale Warning in effect for all waters Wed Afternoon into Thursday Afternoon
 - ✓ 30-40kt with gusts 45kt. Occasional gusts to 50 kt possible
 - Ocean seas 12-16 ft. 4-7 ft on LI Sound.





